What is claimed is:

1. A control method of an external control system fan clutch wherein the interior of a sealing housing constructed by a case of a non-magnetic material supported through a bearing on a rotating shaft body fixedly attaching a drive disk to its tip and a cover attached to this case is partitioned into an oil reservoir room and a torque transmission room for internally mounting said drive disk by a partition plate; a dam is arranged in one portion of the inner circumferential wall face of the cover opposed to the outer circumferential wall portion of the drive disk for collecting and reservoiring oil at the rotating time, and a valve member having a magnetic property and opening and closing an oil circulating flow passage formed between the torque transmission room and the oil reservoir room is connected to the dam and is arranged within the oil reservoir room; an electromagnet is supported by said rotating shaft body through the bearing on the oil reservoir room side of said sealing housing, and a mechanism for controlling the opening and closing of the oil circulating flow passage is constructed by operating said valve member by the electromagnet; and the external control type fan clutch is constructed by a system for controlling rotating torque transmission from the drive side to the driven side by increasing and decreasing an effective contact area of the oil in a torque transmission clearance portion formed by the drive side and the driven side; wherein the opening and

closing of said valve member are controlled on the basis of at least one signal of the cooling liquid temperature of a radiator, a fan rotating speed, the temperature of transmission oil, a vehicle speed, an engine rotating speed, the pressure of a compressor of an air conditioner, and a turning-on or turning-off signal of the air conditioner.

- 2. The control method of the external control type fan clutch according to claim 1, wherein a magnetic material of a ring shape is arranged between said electromagnet and the valve member, and is constructed by assembling the magnetic material into the sealing housing so as to transmit a magnetic flux of the electromagnet to the valve member through the magnetic material.
- 3. A control method of an external control system fan clutch wherein the interior of a sealing housing constructed by a case of a non-magnetic material supported through a bearing on a rotating shaft body fixedly attaching a drive disk to its tip and a cover attached to this case is partitioned into an oil reservoir room and a torque transmission room for internally mounting said drive disk by a partition plate; a dam is arranged in one portion of the inner circumferential wall face of the cover opposed to the outer circumferential wall portion of the drive disk for collecting and reservoiring oil at the rotating time, and a valve member having a magnetic property and opening and closing an oil circulating flow passage formed between the

torque transmission room and the oil reservoir room is connected to the dam and is arranged within the oil reservoir room; an electromagnet is supported by said rotating shaft body through the bearing on the oil reservoir room side of said sealing housing, and a mechanism for controlling the opening and closing of the oil circulating flow passage is constructed by operating said valve member by the electromagnet; and the external control type fan clutch is constructed by a system for controlling rotating torque transmission from the drive side to the driven side by increasing and decreasing an effective contact area of the oil in a torque transmission clearance portion formed by the drive side and the driven side; wherein an upper limit rotating speed is set to an optimum fan rotating speed required from the engine side; a fan rotating speed control signal is temporarily stopped on the basis of the differential speeds between an engine rotating speed, the fan rotating speed and said optimum fan rotating speed; the fan rotating speed control signal is temporarily stopped on the basis of an engine rotating acceleration accelerator oran (throttle) position acceleration; or a limit is given to a changing rate of the optimum fan rotating speed on the basis of the changing rate of said optimum fan rotating speed.

4. The control method of the external control type fan clutch according to claim 3, wherein a magnetic material of a ring shape is arranged between said electromagnet and the

valve member, and is constructed by assembling the magnetic material into the sealing housing so as to transmit a magnetic flux of the electromagnet to the valve member through the magnetic material.